

# 2017 Annual Groundwater Monitoring and Corrective Action Report

Miami Fort Basin A – CCR Unit ID 111  
Miami Fort Power Station  
11021 Brower Road  
North Bend, Ohio 45052

**Dynegy Miami Fort, LLC**

January 31, 2018

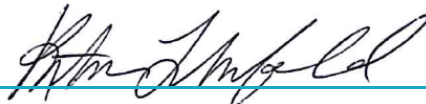


JANUARY 31, 2018 | PROJECT #67720

# 2017 Annual Groundwater Monitoring and Corrective Action Report

Miami Fort Basin A – CCR Unit ID 111  
Miami Fort Power Station  
North Bend, Ohio

Prepared for:  
*Dynegy Miami Fort, LLC*



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## ACRONYMS AND ABBREVIATIONS

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CCR	Coal Combustion Residuals
CFR	Code of Federal Regulations
mg/L	milligrams per liter
NRT/OBG	Natural Resource Technology, an OBG Company
OBG	O'Brien & Gere Engineers, Inc.
SSI	statistically significant increase
STD	standard units

## 1 INTRODUCTION

### 1.1 OVERVIEW

This report has been prepared on behalf of Dynegey Miami Fort, LLC by O'Brien & Gere Engineers, Inc. (OBG), to provide the information required by 40 CFR 257.90(e) for the Miami Fort Basin A located at Miami Fort Power Station near North Bend, Ohio.

In accordance with 40 CFR 257.90(e), the owner or operator of an existing CCR unit must prepare an annual groundwater monitoring and corrective action report, for the preceding calendar year, that documents the status of the groundwater monitoring and corrective action program for the CCR unit, summarizes key actions completed, describes any problems encountered, discusses actions to resolve the problems, and projects key activities for the upcoming year. At a minimum, the annual report must contain the following information, to the extent available:

1. A map, aerial image, or diagram showing the CCR unit and all background (or upgradient) and downgradient monitoring wells, to include the well identification numbers, that are part of the groundwater monitoring program for the CCR unit.
2. Identification of any monitoring wells that were installed or decommissioned during the preceding year, along with a narrative description of why those actions were taken.
3. In addition to all the monitoring data obtained under §§ 257.90 through 257.98, a summary including the number of groundwater samples that were collected for analysis for each background and downgradient well, the dates the samples were collected, and whether the sample was required by the detection monitoring or assessment monitoring programs.
4. A narrative discussion of any transition between monitoring programs (*e.g.*, the date and circumstances for transitioning from detection monitoring to assessment monitoring in addition to identifying the constituent(s) detected at a statistically significant increase over background levels).
5. Other information required to be included in the annual report as specified in §§ 257.90 through 257.98.<sup>1</sup>

This report provides the required information for the Miami Fort Basin A for calendar year 2017.

### 1.2 MONITORING AND CORRECTIVE ACTION PROGRAM STATUS

The final three independent samples of the minimum eight required by 40 CFR 257.94(b) were collected and analyzed from each background and downgradient well in 2017 before October 17. The other five independent samples were collected and analyzed in 2015 and 2016.

The first semi-annual monitoring sample for the Detection Monitoring Program was collected in November 2017 from each well.

Using the last of the minimum eight samples required to be collected by October 17, 2017 to determine whether a statistically significant increase (SSI) of Appendix III parameters over background concentrations has occurred, evaluation of analytical data from the downgradient wells was initiated beginning no later than October 17, 2017 for the initial eight samples. SSI determinations will be completed within 90 days (January 15, 2018). In addition, SSI determinations will be completed within 90 days of completion of analysis for the first semi-annual detection monitoring sample collected on November 13-14, 2017, for which analytical data was received on November 30, 2017.

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<sup>1</sup> For calendar year 2017, corrective action and other information required to be included in the annual report as specified in §§ 257.90 through 257.98 is inapplicable.

## 2 KEY ACTIONS COMPLETED IN 2017

### 2.1 SUMMARY

Three groundwater sampling events were completed in 2017 as part of an effort initiated in 2015 to collect eight independent samples from background and downgradient monitoring wells in accordance with 40 CFR 257.94(b).

Subsequent to collection of the eight independent samples, an additional sampling event was completed in November 2017 for parameters listed in Appendix III, 40 CFR Part 257, to supplement the background data set and as the first semi-annual monitoring sampling event for the Detection Monitoring Program.

A map showing the groundwater monitoring system, including the CCR unit and all background (upgradient) and downgradient monitoring wells with well identification numbers, for the Miami Fort Basin A is presented in Figure 1. MW-13 was installed on April 11, 2017 as a replacement for MW-13S. MW-13 monitors groundwater at an elevation consistent with the other wells in the monitoring system. MW-13S will continue to be used to monitor groundwater elevation. No monitoring wells were decommissioned from the monitoring system in 2017.

Samples were collected and analyzed in accordance with the Sampling and Analysis Plan (AECOM, 2017) prepared for the Miami Fort Basin A.

All monitoring data obtained under 40 CFR §§ 257.90 through 257.98 (as applicable) in 2017, as well as monitoring data for the previously collected five independent samples are presented in Tables 1 and 2. Sample collection dates in 2017 were March 7-8, June 6, July 10-11, and November 13-14. Sample collection dates for previously collected five independent samples are identified in Tables 1 and 2. One ground water sample was collected from each background and downgradient well in each sampling event.

Statistical evaluation of analytical data from the eight independent samples required to be collected by October 17, 2017 and the first semi-annual detection monitoring event on November 13-14, 2017 was initiated and will be completed within 90 days of October 17, 2017 (January 15, 2018) or 90 days from receipt of the data from the first semi-annual detection monitoring event (February 28, 2018), respectively. Statistical evaluation of analytical data is being performed in accordance with the Statistical Analysis Plan, Miami Fort Power Station, Dynegy Miami Fort, LLC (NRT/OBG, 2017). Data from MW-13 and MW-13S will be pooled during statistical evaluation.

### 2.2 PROBLEMS ENCOUNTERED AND ACTIONS TO RESOLVE THE PROBLEMS

Groundwater samples were collected and analyzed in accordance with the Sampling and Analysis Plan. Field pH measurements during collection of the March 7-8, 2017 groundwater samples are not valid due to a malfunction of the water quality probe used to take the measurements. No additional problems were encountered during 2017.

### 3 KEY ACTIVITIES PLANNED FOR 2018

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#### 3.1 SUMMARY

The following key activities are planned for 2018:

- Continuation of the Detection Monitoring Program with semi-annual sampling scheduled for the 2nd and 4th quarters of 2018.
- Complete evaluation of analytical data from the downgradient wells, using both the eight samples required to be collected by October 17, 2017 and the first semi-annual detection monitoring sample taken in November 2017 to determine whether a SSI of Appendix III parameters over background concentrations has occurred.
- If an SSI is identified, potential alternate sources (*i.e.*, a source other than the CCR unit caused the SSI or that that SSI resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality) will be evaluated. If an alternate source is demonstrated to be the cause of the SSI, a written demonstration will be completed within 90 days of SSI detection and included in the annual groundwater monitoring and corrective action report for 2018.
  - » If an alternate source(s) is not identified to be the cause of the SSI, the applicable requirements of 40 CFR §§ 257.94 through 257.98 (*e.g.*, assessment monitoring) as may apply in 2018 will be met, including associated recordkeeping/notifications required by 40 CFR §§ 257.105 through 257.108.

## REFERENCES

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AECOM, 2017, Sampling and Analysis Plan, CCR Rule Groundwater Monitoring, Basin A, Unit 111, Miami Fort Power Station, Cleves, Ohio, Job Number 60442412, Revision 0, October 17, 2017.

Natural Resource Technology, an OBG Company, 2017, Statistical Analysis Plan, Miami Fort Power Station, Dynegy Miami Fort, LLC, October 17, 2017.





Tables

Miami Fort

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Table 1. Miami Fort Basin A: Appendix III Analytical Results

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Location ID	Sample Date	B, tot, mg/L	Ca, tot, mg/L	Cl, tot, mg/L	F, tot, mg/L	pH (field), STD	SO4, tot, mg/L
MW-1	12/8/2015	1.900	217.0	54.60	0.3330	7.030	492.0
	3/22/2016	1.150	274.0	48.20	0.3730	7.130	420.0
	6/21/2016	1.470	203.0	<30.00	<1.000	7.020	107.0
	9/13/2016	1.200	237.0	50.80	<1.000	6.970	550.0
	12/14/2016	0.7370	181.0	<60.00	<1.000	7.120	308.0
	3/7/2017	0.7110	162.0	57.30	<1.000	8.090	333.0
	6/6/2017	0.7990	187.0	71.50	<1.000	7.260	350.0
	7/10/2017	0.7980	168.0	<60.00	<1.000	6.940	348.0
	11/13/2017	0.5370	125.0	54.30	<1.000	6.680	290.0
MW-12	12/7/2015	5.860	160.0	155.0	0.09100	6.400	377.0
	3/24/2016	4.490	226.0	141.0	0.1630	6.160	364.0
	6/21/2016	5.750	164.0	159.0	<1.000	5.940	443.0
	9/13/2016	6.020	184.0	168.0	<1.000	5.900	432.0
	12/13/2016	6.460	187.0	163.0	<1.000	6.020	452.0
	3/7/2017	5.970	185.0	172.0	<1.000	6.970	525.0
	6/6/2017	7.480	216.0	190.0	<1.000	6.280	544.0
	7/11/2017	7.300	197.0	213.0	<1.000	5.370	603.0
	11/14/2017	8.370	203.0	214.0	<1.000	5.310	617.0

Table 1. Miami Fort Basin A: Appendix III Analytical Results

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Location ID	Sample Date	TDS, mg/L
MW-1	12/8/2015	1050.
	3/22/2016	989.0
	6/21/2016	988.0
	9/13/2016	1160.
	12/14/2016	819.0
	3/7/2017	852.0
	6/6/2017	876.0
	7/10/2017	836.0
	11/13/2017	589.0
MW-12	12/7/2015	926.0
	3/24/2016	908.0
	6/21/2016	979.0
	9/13/2016	992.0
	12/13/2016	1060.
	3/7/2017	1120.
	6/6/2017	1240.
	7/11/2017	1250.
	11/14/2017	1240.

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Table 1. Miami Fort Basin A: Appendix III Analytical Results

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Location ID	Sample Date	B, tot, mg/L	Ca, tot, mg/L	Cl, tot, mg/L	F, tot, mg/L	pH (field), STD	SO4, tot, mg/L
MW-13	6/6/2017	0.08280	52.70	<30.00	<1.000	6.810	58.40
	7/11/2017	0.1560	42.30	26.30	<1.000	7.010	56.70
	11/14/2017	0.1240	40.50	26.50	<1.000	7.210	<250.0
MW-13S	12/8/2015	1.110	288.0	33.10	0.07080	6.220	947.0
	3/24/2016	0.6890	394.0	23.90	0.07020	5.450	1060.
	6/21/2016	0.7950	265.0	<30.00	<1.000	6.020	1060.
	9/13/2016	0.8260	270.0	25.00	<1.000	7.040	1070.
	12/13/2016	0.8450	251.0	24.40	<1.000	5.600	949.0
	3/7/2017	0.6650	244.0	25.00	<1.000	6.680	976.0
MW-4	12/7/2015	0.3590	135.0	29.70	0.2450	6.730	338.0
	3/24/2016	0.3320	271.0	21.40	0.2650	6.060	639.0
	6/21/2016	0.3780	198.0	25.90	<1.000	6.120	726.0
	9/13/2016	0.3230	182.0	24.10	<1.000	6.150	505.0
	12/13/2016	0.2640	146.0	25.40	<1.000	6.310	420.0
	3/7/2017	0.3290	216.0	23.10	<1.000	7.100	680.0
	6/6/2017	0.5630	367.0	19.00	<1.000	6.000	<2500.
	7/11/2017	0.5990	317.0	19.30	<1.000	5.780	1270.
	11/14/2017	0.2590	153.0	27.30	<1.000	6.100	432.0

**Table 1. Miami Fort Basin A: Appendix III Analytical Results**

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Location ID	Sample Date	TDS, mg/L
MW-13	6/6/2017	289.0
	7/11/2017	264.0
	11/14/2017	247.0
MW-13S	12/8/2015	1680.
	3/24/2016	1620.
	6/21/2016	1600.
	9/13/2016	1590.
	12/13/2016	1490.
	3/7/2017	1480.
MW-4	12/7/2015	756.0
	3/24/2016	1150.
	6/21/2016	1140.
	9/13/2016	991.0
	12/13/2016	788.0
	3/7/2017	1180.
	6/6/2017	2240.
	7/11/2017	1930.
	11/14/2017	840.0

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Table 1. Miami Fort Basin A: Appendix III Analytical Results

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Location ID	Sample Date	B, tot, mg/L	Ca, tot, mg/L	Cl, tot, mg/L	F, tot, mg/L	pH (field), STD	SO4, tot, mg/L
MW-5	12/8/2015	4.820	155.0	138.0	0.1310	7.430	235.0
	3/24/2016	3.060	192.0	135.0	0.1790	7.300	247.0
	6/21/2016	14.60	294.0	398.0	<1.000	7.200	620.0
	9/13/2016	19.90	363.0	430.0	<1.000	7.060	640.0
	12/13/2016	17.70	308.0	317.0	<1.000	7.280	574.0
	3/8/2017	4.850	172.0	134.0	<1.000	9.070	320.0
	6/6/2017	4.410	195.0	<150.0	<1.000	7.450	274.0
	7/11/2017	5.170	184.0	137.0	<1.000	7.220	335.0
	11/14/2017	5.370	180.0	175.0	<1.000	7.030	302.0
MW-6	12/7/2015	23.80	98.70	612.0	0.9220	7.230	38.40
	3/24/2016	22.10	87.40	481.0	1.270	6.940	55.60
	6/21/2016	12.80	53.10	218.0	1.600	7.190	6.380
	9/13/2016	7.420	43.30	131.0	1.530	7.250	16.10
	12/13/2016	5.320	44.30	125.0	1.560	7.320	24.30
	3/7/2017	12.60	82.40	307.0	1.370	7.930	187.0
	6/6/2017	30.20	123.0	571.0	1.360	7.030	<250.0
	7/11/2017	23.20	93.70	456.0	1.350	7.070	126.0
	11/14/2017	23.30	116.0	503.0	1.280	6.800	311.0

Table 1. Miami Fort Basin A: Appendix III Analytical Results

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Location ID	Sample Date	TDS, mg/L
MW-5	12/8/2015	783.0
	3/24/2016	710.0
	6/21/2016	1630.
	9/13/2016	2120.
	12/13/2016	1660.
	3/8/2017	849.0
	6/6/2017	852.0
	7/11/2017	893.0
	11/14/2017	811.0
MW-6	12/7/2015	1480.
	3/24/2016	1050.
	6/21/2016	627.0
	9/13/2016	526.0
	12/13/2016	478.0
	3/7/2017	990.0
	6/6/2017	1680.
	7/11/2017	1380.
	11/14/2017	1640.

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Table 1. Miami Fort Basin A: Appendix III Analytical Results

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Location ID	Sample Date	B, tot, mg/L	Ca, tot, mg/L	Cl, tot, mg/L	F, tot, mg/L	pH (field), STD	SO4, tot, mg/L
MW-7	12/8/2015	0.2050	130.0	10.30	0.1190	7.110	54.20
	3/22/2016	0.06450	159.0	4.730	0.1280	6.810	39.40
	6/21/2016	0.09610	120.0	<30.00	<10.00	6.970	53.60
	9/13/2016	0.1120	109.0	7.140	<1.000	6.930	49.30
	12/14/2016	0.08370	118.0	5.980	<1.000	6.990	<50.00
	3/8/2017	0.08030	104.0	6.460	<1.000	9.350	39.10
	6/6/2017	<0.08000	102.0	6.150	<1.000	7.610	50.60
	7/10/2017	0.08870	108.0	7.840	<1.000	6.690	<100.0
	11/13/2017	0.1000	121.0	7.480	<1.000	6.700	<100.0



Table 1. Miami Fort Basin A: Appendix III Analytical Results

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Location ID	Sample Date	TDS, mg/L
MW-7	12/8/2015	519.0
	3/22/2016	468.0
	6/21/2016	478.0
	9/13/2016	494.0
	12/14/2016	456.0
	3/8/2017	450.0
	6/6/2017	476.0
	7/10/2017	474.0
	11/13/2017	483.0

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Table 2. Miami Fort Basin A: Appendix IV Analytical Results

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Location ID	Sample Date	As, tot, mg/L	Ba, tot, mg/L	Be, tot, mg/L	Cd,tot, mg/L	Co, tot, mg/L	Cr, tot, mg/L
MW-1	12/8/2015	0.002290	0.04840	<0.001000	<0.0004000	<0.0005000	<0.0005000
	3/22/2016	<0.002950	0.06020	<0.0008750	<0.0002500	<0.0005430	<0.002500
	6/21/2016	<0.001000	0.04520	<0.001000	<0.001000	<0.0005000	<0.002000
	9/13/2016	<0.001000	0.05150	<0.001000	<0.001000	<0.0005000	<0.002000
	12/14/2016	<0.001000	0.03710	<0.001000	<0.001000	<0.0005000	<0.002000
	3/7/2017	<0.001000	0.03390	<0.001000	<0.001000	<0.0005000	<0.002000
	6/6/2017	<0.001000	0.03730	<0.001000	<0.001000	<0.0005000	<0.002000
	7/10/2017	<0.001000	0.03580	<0.001000	<0.001000	<0.0005000	<0.002000
MW-12	12/7/2015	0.002200	0.03220	<0.001000	0.001270	0.002000	0.0009040
	3/24/2016	<0.002950	0.02280	<0.0008750	0.002170	0.002100	<0.002500
	6/21/2016	<0.001000	0.01960	<0.001000	0.002180	0.002080	<0.002000
	9/13/2016	<0.001000	0.01950	<0.001000	0.001140	0.001830	<0.002000
	12/13/2016	<0.001000	0.02310	<0.001000	0.004220	0.001780	<0.002000
	3/7/2017	<0.001000	0.01730	<0.001000	0.002770	0.002060	<0.002000
	6/6/2017	<0.001000	0.01710	<0.001000	0.002850	0.002140	<0.002000
	7/11/2017	<0.001000	0.01540	<0.001000	0.001790	0.002630	<0.002000
MW-13	6/6/2017	0.008970	0.1790	<0.001000	<0.001000	<0.0005000	<0.002000
	7/11/2017	0.007490	0.1630	<0.001000	<0.001000	<0.0005000	<0.002000

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Table 2. Miami Fort Basin A: Appendix IV Analytical Results

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Location ID	Sample Date	F, tot, mg/L	Hg, tot, mg/L	Li, tot, mg/L	Mo, tot, mg/L	Pb, tot, mg/L	Ra-226,228, tot, pCi/L
MW-1	12/8/2015	0.3330	<0.0001000	0.07070	0.04050	0.0002220	0.5640
	3/22/2016	0.3730	<0.0001000	0.06160	0.05130	<0.0004330	0.3940
	6/21/2016	<1.000	<0.0002000	<0.05000	0.03530	<0.001000	0.2370
	9/13/2016	<1.000	<0.0002000	0.05300	0.04050	<0.001000	0.5560
	12/14/2016	<1.000	<0.0002000	0.05900	0.05020	<0.001000	0.04930
	3/7/2017	<1.000	<0.0002000	<0.05000	0.04060	<0.001000	0.1860
	6/6/2017	<1.000	<0.0002000	<0.05000	0.03570	<0.001000	0.1780
	7/10/2017	<1.000	<0.0002000	<0.05000	0.03900	<0.001000	0.1120
MW-12	12/7/2015	0.09100	<0.0001000	0.007190	0.002630	0.0006640	0.6560
	3/24/2016	0.1630	<0.0001000	0.007540	<0.002500	<0.0004330	0.3240
	6/21/2016	<1.000	<0.0002000	<0.05000	<0.005000	<0.001000	0.2230
	9/13/2016	<1.000	<0.0002000	<0.05000	<0.005000	<0.001000	0.3850
	12/13/2016	<1.000	<0.0002000	<0.05000	<0.005000	<0.001000	0.3980
	3/7/2017	<1.000	<0.0002000	<0.05000	<0.005000	<0.001000	0.7350
	6/6/2017	<1.000	<0.0002000	<0.05000	<0.005000	<0.001000	0.1900
	7/11/2017	<1.000	<0.0002000	<0.05000	<0.005000	<0.001000	0.3870
MW-13	6/6/2017	<1.000	<0.0002000	<0.05000	0.009740	<0.001000	1.060
	7/11/2017	<1.000	<0.0002000	<0.05000	0.01010	<0.001000	0.5840

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Table 2. Miami Fort Basin A: Appendix IV Analytical Results

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Location ID	Sample Date	Sb, tot, mg/L	Se, tot, mg/L	Tl, tot, mg/L
MW-1	12/8/2015	<0.0005000	<0.0006000	<0.0005000
	3/22/2016	<0.004180	<0.003980	<0.001380
	6/21/2016	<0.002000	<0.005000	<0.001000
	9/13/2016	<0.002000	<0.005000	<0.001000
	12/14/2016	<0.002000	<0.005000	<0.001000
	3/7/2017	<0.002000	<0.005000	<0.001000
	6/6/2017	<0.002000	<0.005000	<0.001000
	7/10/2017	<0.002000	<0.005000	<0.001000
MW-12	12/7/2015	<0.0005000	0.0006390	<0.0005000
	3/24/2016	<0.004180	<0.003980	<0.001380
	6/21/2016	<0.002000	<0.005000	<0.001000
	9/13/2016	<0.002000	<0.005000	<0.001000
	12/13/2016	<0.002000	<0.005000	<0.001000
	3/7/2017	<0.002000	<0.005000	<0.001000
	6/6/2017	<0.002000	<0.005000	<0.001000
	7/11/2017	<0.002000	<0.005000	<0.001000
MW-13	6/6/2017	<0.002000	<0.005000	<0.001000
	7/11/2017	<0.002000	<0.005000	<0.001000

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Table 2. Miami Fort Basin A: Appendix IV Analytical Results

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Location ID	Sample Date	As, tot, mg/L	Ba, tot, mg/L	Be, tot, mg/L	Cd,tot, mg/L	Co, tot, mg/L	Cr, tot, mg/L
MW-13S	12/8/2015	0.003030	0.03410	<0.001000	0.0006890	0.01680	0.0008810
	3/24/2016	<0.002950	0.02470	<0.0008750	0.001110	0.01320	<0.002500
	6/21/2016	0.002390	0.02980	<0.001000	0.001190	0.01140	0.004000
	9/13/2016	0.001230	0.01780	<0.001000	0.001670	0.005890	<0.002000
	12/13/2016	<0.001000	0.01400	<0.001000	0.002160	0.005060	<0.002000
	3/7/2017	0.001070	0.01600	<0.001000	0.001940	0.004270	<0.002000
MW-4	12/7/2015	0.003450	0.01590	<0.001000	0.0004810	0.005030	0.004460
	3/24/2016	0.004820	0.03000	<0.0008750	0.0008600	0.01390	0.002630
	6/21/2016	0.001630	0.05760	<0.001000	<0.001000	0.01210	<0.002000
	9/13/2016	<0.001000	0.01480	<0.001000	<0.001000	0.008200	<0.002000
	12/13/2016	0.001100	0.01280	<0.001000	<0.001000	0.006420	<0.002000
	3/7/2017	0.001000	0.02700	<0.001000	<0.001000	0.008390	<0.002000
	6/6/2017	0.001930	0.01990	<0.001000	<0.001000	0.01500	<0.002000
	7/11/2017	0.001880	0.02020	<0.001000	<0.001000	0.01820	<0.002000
MW-5	12/8/2015	0.002050	0.05590	<0.001000	<0.0004000	0.0006710	0.0007920
	3/24/2016	<0.002950	0.06850	<0.0008750	<0.0002500	<0.0005430	<0.002500
	6/21/2016	<0.001000	0.08260	<0.001000	<0.001000	0.0006960	<0.002000

Miami Fort

January 30, 2018

Table 2. Miami Fort Basin A: Appendix IV Analytical Results

5:41:28 PM

Location ID	Sample Date	F, tot, mg/L	Hg, tot, mg/L	Li, tot, mg/L	Mo, tot, mg/L	Pb, tot, mg/L	Ra-226,228, tot, pCi/L
MW-13S	12/8/2015	0.07080	<0.0001000	0.01030	<0.0005000	0.0006120	0.4730
	3/24/2016	0.07020	<0.0001000	0.009160	<0.002500	<0.0004330	0.6090
	6/21/2016	<1.000	<0.0002000	<0.05000	<0.005000	0.002180	1.130
	9/13/2016	<1.000	<0.0002000	<0.05000	<0.005000	<0.001000	0.3760
	12/13/2016	<1.000	<0.0002000	<0.05000	<0.005000	<0.001000	0.3290
	3/7/2017	<1.000	<0.0002000	<0.05000	<0.005000	<0.001000	0.7240
MW-4	12/7/2015	0.2450	<0.0001000	0.005800	0.005040	0.001440	0.4800
	3/24/2016	0.2650	<0.0001000	0.007360	<0.002500	0.004200	0.5980
	6/21/2016	<1.000	<0.0002000	<0.05000	<0.005000	0.001010	0.3400
	9/13/2016	<1.000	<0.0002000	<0.05000	<0.005000	<0.001000	0.4760
	12/13/2016	<1.000	<0.0002000	<0.05000	<0.005000	<0.001000	0.3930
	3/7/2017	<1.000	<0.0002000	<0.05000	<0.005000	<0.001000	0.08780
	6/6/2017	<1.000	<0.0002000	<0.05000	<0.005000	0.001110	0.5280
	7/11/2017	<1.000	<0.0002000	<0.05000	<0.005000	0.001120	0.6210
MW-5	12/8/2015	0.1310	<0.0001000	0.007240	0.005810	0.0007420	0.3230
	3/24/2016	0.1790	<0.0001000	0.006250	0.005500	<0.0004330	0.7960
	6/21/2016	<1.000	<0.0002000	<0.05000	<0.005000	<0.001000	0.2110

Miami Fort

January 30, 2018

Table 2. Miami Fort Basin A: Appendix IV Analytical Results

5:41:28 PM

Location ID	Sample Date	Sb, tot, mg/L	Se, tot, mg/L	Tl, tot, mg/L
MW-13S	12/8/2015	<0.0005000	0.0007810	<0.0005000
	3/24/2016	<0.004180	<0.003980	<0.001380
	6/21/2016	<0.002000	<0.005000	<0.001000
	9/13/2016	<0.002000	<0.005000	<0.001000
	12/13/2016	<0.002000	<0.005000	<0.001000
	3/7/2017	<0.002000	<0.005000	<0.001000
MW-4	12/7/2015	<0.0005000	0.0007720	<0.0005000
	3/24/2016	<0.004180	<0.003980	<0.001380
	6/21/2016	<0.002000	<0.005000	<0.001000
	9/13/2016	<0.002000	<0.005000	<0.001000
	12/13/2016	<0.002000	<0.005000	<0.001000
	3/7/2017	<0.002000	<0.005000	<0.001000
	6/6/2017	0.002260	<0.005000	<0.001000
	7/11/2017	<0.002000	<0.005000	<0.001000
MW-5	12/8/2015	<0.0005000	<0.0006000	<0.0005000
	3/24/2016	<0.004180	<0.003980	<0.001380
	6/21/2016	<0.002000	<0.005000	<0.001000

Table 2. Miami Fort Basin A: Appendix IV Analytical Results

Location ID	Sample Date	As, tot, mg/L	Ba, tot, mg/L	Be, tot, mg/L	Cd,tot, mg/L	Co, tot, mg/L	Cr, tot, mg/L
MW-5	9/13/2016	0.001640	0.07830	<0.001000	<0.001000	<0.0005000	<0.002000
	12/13/2016	<0.001000	0.07140	<0.001000	<0.001000	<0.0005000	<0.002000
	3/8/2017	<0.001000	0.03890	<0.001000	0.001050	<0.0005000	<0.002000
	6/6/2017	0.001050	0.04540	<0.001000	<0.001000	<0.0005000	<0.002000
	7/11/2017	<0.001000	0.03800	<0.001000	<0.001000	<0.0005000	<0.002000
MW-6	12/7/2015	0.002510	0.4740	<0.001000	<0.0004000	0.004720	<0.0005000
	3/24/2016	<0.002950	0.4600	<0.0008750	<0.0002500	0.004720	<0.002500
	6/21/2016	0.002310	0.3460	<0.001000	<0.001000	0.003780	<0.002000
	9/13/2016	0.001930	0.2570	<0.001000	<0.001000	0.002020	<0.002000
	12/13/2016	0.002240	0.2350	<0.001000	<0.001000	0.001730	<0.002000
	3/7/2017	0.002140	0.2490	<0.001000	<0.001000	0.003420	<0.002000
	6/6/2017	0.004850	0.2920	<0.001000	<0.001000	0.007380	<0.002000
	7/11/2017	0.005100	0.2720	<0.001000	<0.001000	0.007580	<0.002000
MW-7	12/8/2015	0.001430	0.09970	<0.001000	<0.0004000	<0.0005000	0.0005740
	3/22/2016	<0.002950	0.1330	<0.0008750	<0.0002500	<0.0005430	<0.002500
	6/21/2016	<0.001000	0.1110	<0.001000	<0.001000	<0.0005000	<0.002000
	9/13/2016	<0.001000	0.09970	<0.001000	<0.001000	<0.0005000	<0.002000
	12/14/2016	<0.001000	0.09960	<0.001000	<0.001000	<0.0005000	<0.002000



Miami Fort

January 30, 2018

Table 2. Miami Fort Basin A: Appendix IV Analytical Results

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Location ID	Sample Date	F, tot, mg/L	Hg, tot, mg/L	Li, tot, mg/L	Mo, tot, mg/L	Pb, tot, mg/L	Ra-226,228, tot, pCi/L
MW-5	9/13/2016	<1.000	<0.0002000	<0.05000	<0.005000	<0.001000	0.2950
	12/13/2016	<1.000	<0.0002000	<0.05000	0.006030	<0.001000	0.3890
	3/8/2017	<1.000	<0.0002000	<0.05000	0.007510	<0.001000	0.1000
	6/6/2017	<1.000	<0.0002000	<0.05000	0.006060	<0.001000	0.9150
	7/11/2017	<1.000	<0.0002000	<0.05000	0.007960	<0.001000	0.3840
MW-6	12/7/2015	0.9220	<0.0001000	0.02080	0.5400	0.0002960	0.9970
	3/24/2016	1.270	<0.0001000	0.01550	0.4780	<0.0004330	0.4450
	6/21/2016	1.600	<0.0002000	<0.05000	0.5790	<0.001000	0.2520
	9/13/2016	1.530	<0.0002000	<0.05000	0.6610	<0.001000	0.7620
	12/13/2016	1.560	<0.0002000	<0.05000	0.6370	<0.001000	0.3470
	3/7/2017	1.370	<0.0002000	<0.05000	0.5230	<0.001000	0.4400
	6/6/2017	1.360	<0.0002000	<0.05000	0.3800	<0.001000	0.3570
	7/11/2017	1.350	<0.0002000	<0.05000	0.3660	<0.001000	0.5820
MW-7	12/8/2015	0.1190	<0.0001000	0.008200	0.002310	<0.0002000	0.4480
	3/22/2016	0.1280	<0.0001000	0.009490	<0.002500	<0.0004330	0.4640
	6/21/2016	<10.00	<0.0002000	<0.05000	<0.005000	<0.001000	0.3830
	9/13/2016	<1.000	<0.0002000	<0.05000	<0.005000	<0.001000	0.6700
	12/14/2016	<1.000	<0.0002000	<0.05000	<0.005000	<0.001000	0.7350

Miami Fort

January 30, 2018

Table 2. Miami Fort Basin A: Appendix IV Analytical Results

5:41:28 PM

Location ID	Sample Date	Sb, tot, mg/L	Se, tot, mg/L	Tl, tot, mg/L
MW-5	9/13/2016	<0.002000	<0.005000	<0.001000
	12/13/2016	<0.002000	<0.005000	<0.001000
	3/8/2017	<0.002000	<0.005000	<0.001000
	6/6/2017	<0.002000	<0.005000	<0.001000
	7/11/2017	<0.002000	<0.005000	<0.001000
MW-6	12/7/2015	<0.0005000	0.0006060	<0.0005000
	3/24/2016	<0.004180	<0.003980	<0.001380
	6/21/2016	<0.002000	<0.005000	<0.001000
	9/13/2016	<0.002000	<0.005000	<0.001000
	12/13/2016	<0.002000	<0.005000	<0.001000
	3/7/2017	<0.002000	<0.005000	<0.001000
	6/6/2017	<0.002000	<0.005000	<0.001000
	7/11/2017	<0.002000	<0.005000	<0.001000
MW-7	12/8/2015	<0.0005000	0.0007400	<0.0005000
	3/22/2016	<0.004180	<0.003980	<0.001380
	6/21/2016	<0.002000	<0.005000	<0.001000
	9/13/2016	<0.002000	<0.005000	<0.001000
	12/14/2016	<0.002000	<0.005000	<0.001000

Table 2. Miami Fort Basin A: Appendix IV Analytical Results

Location ID	Sample Date	As, tot, mg/L	Ba, tot, mg/L	Be, tot, mg/L	Cd,tot, mg/L	Co, tot, mg/L	Cr, tot, mg/L
MW-7	3/8/2017	<0.001000	0.08740	<0.001000	<0.001000	<0.0005000	<0.002000
	6/6/2017	<0.001000	0.09690	<0.001000	<0.001000	<0.0005000	<0.002000
	7/10/2017	<0.001000	0.09030	<0.001000	<0.001000	<0.0005000	<0.002000

Miami Fort

January 30, 2018

Table 2. Miami Fort Basin A: Appendix IV Analytical Results

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Location ID	Sample Date	F, tot, mg/L	Hg, tot, mg/L	Li, tot, mg/L	Mo, tot, mg/L	Pb, tot, mg/L	Ra-226,228, tot, pCi/L
MW-7	3/8/2017	<1.000	<0.0002000	<0.05000	<0.005000	<0.001000	0.4110
	6/6/2017	<1.000	<0.0002000	<0.05000	<0.005000	<0.001000	0.5040
	7/10/2017	<1.000	<0.0002000	<0.05000	<0.005000	<0.001000	0.3860

Miami Fort

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Table 2. Miami Fort Basin A: Appendix IV Analytical Results

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Location ID	Sample Date	Sb, tot, mg/L	Se, tot, mg/L	Tl, tot, mg/L
MW-7	3/8/2017	<0.002000	<0.005000	<0.001000
	6/6/2017	<0.002000	<0.005000	<0.001000
	7/10/2017	<0.002000	<0.005000	<0.001000



## Figures

Y:\Mapping\Projects\222285\MXD\2017\_AnnualGWM\_CAR\Figure 1\_GWS\_WellLoc\_MiamiFort\_BasinA.mxd Author: stotzsd Date/Time: 1/29/2018 4:09:54 PM



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- DOWNGRADIENT MONITORING WELL LOCATION
- UPGRADIENT MONITORING WELL LOCATION
- WATER LEVEL ONLY MONITORING WELL LOCATION
- CCR MONITORED UNIT

DRAWN BY/DATE:  
SDS 12/21/17  
REVIEWED BY/DATE:  
KLT 12/21/17  
APPROVED BY/DATE:  
SJC 1/25/18

GROUNDWATER SAMPLING WELL LOCATION MAP  
MIAMI FORT BASIN A  
UNIT ID: 111

2017 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
DYNEGY CCR RULE GROUNDWATER MONITORING  
MIAMI FORT POWER STATION  
NORTH BEND, OHIO

PROJECT NO: 67720

FIGURE NO: 1



**OBG**

THERE'S A WAY

